

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P296478

Luminaire Tested: **22RLN-LD5-40-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-UNV-L93050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3403.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

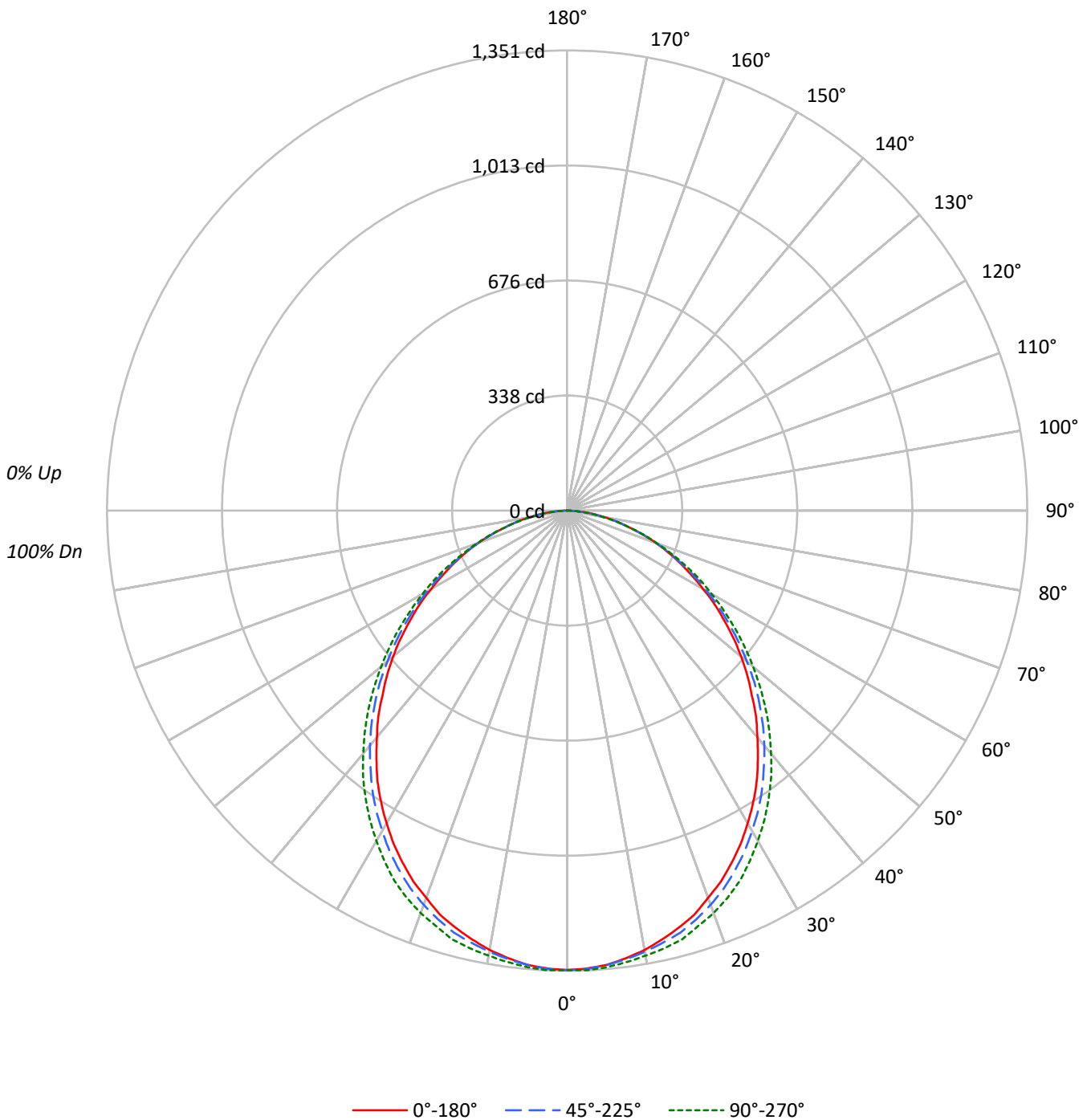
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296478

CATALOG NUMBER: 22RLN-LD5-40-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P296478

CATALOG NUMBER: 22RLN-LD5-40-UNV-L93050-W2A1-U-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3630	3630	3630
5°	3616	3616	3635
10°	3579	3593	3625
15°	3531	3573	3630
20°	3464	3527	3601
25°	3390	3461	3562
30°	3295	3374	3480
35°	3188	3278	3389
40°	3052	3165	3272
45°	2919	3035	3138
50°	2792	2884	2983
55°	2643	2723	2818
60°	2484	2548	2639
65°	2334	2377	2453
70°	2176	2176	2216
75°	1940	1940	1940
80°	1709	1657	1657
85°	1362	1309	1204



TEST NUMBER: P296478

CATALOG NUMBER: 22RLN-LD5-40-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	3.7
10°-20°	361.7	10.6
20°-30°	537.3	15.8
30°-40°	623.5	18.3
40°-50°	613.9	18.0
50°-60°	519.6	15.3
60°-70°	370.6	10.9
70°-80°	199.1	5.9
80°-90°	50.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1026.1	30.2
0°-40°	1649.6	48.5
0°-60°	2783.2	81.8
0°-90°	3403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1339	1339	1339	1344	1346	127
15°	1267	1271	1283	1295	1303	357
25°	1142	1145	1166	1188	1200	526
35°	970	972	998	1021	1032	606
45°	767	772	797	816	825	593
55°	563	565	580	596	601	505
65°	366	366	373	380	385	364
75°	187	185	187	187	187	200
85°	44	42	42	39	39	52
90°	0	0	0	0	0	



TEST NUMBER: P296478

CATALOG NUMBER: 22RLN-LD5-40-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348.9	1348.9	1348.9	1348.9	1348.9
2.5°	1345.5	1345.5	1347.2	1348.9	1350.6
5°	1338.7	1338.7	1338.7	1343.8	1345.5
7.5°	1325.1	1326.8	1328.5	1333.6	1337.0
10°	1309.9	1311.5	1314.9	1323.4	1326.8
12.5°	1289.5	1294.6	1299.7	1311.5	1316.6
15°	1267.4	1270.8	1282.7	1294.6	1303.1
17.5°	1243.7	1245.4	1258.9	1275.9	1279.3
20°	1209.7	1214.8	1231.8	1248.8	1257.3
22.5°	1179.2	1182.6	1201.3	1223.3	1230.1
25°	1141.9	1145.3	1165.6	1187.7	1199.6
27.5°	1102.9	1106.2	1128.3	1152.1	1160.5
30°	1060.4	1063.8	1085.9	1111.3	1119.8
32.5°	1016.3	1019.7	1043.5	1065.5	1077.4
35°	970.5	972.2	997.7	1021.4	1031.6
37.5°	919.6	924.7	948.5	972.2	984.1
40°	868.7	873.8	900.9	923.0	931.5
42.5°	821.2	828.0	850.0	870.4	878.9
45°	766.9	772.0	797.4	816.1	824.6
47.5°	717.7	722.8	744.9	763.5	768.6
50°	666.8	670.2	688.9	705.8	712.6
52.5°	615.9	617.6	634.6	651.5	656.6
55°	563.3	565.0	580.3	595.5	600.6
57.5°	514.1	514.1	527.7	539.5	544.6
60°	461.5	461.5	473.4	485.3	490.3
62.5°	412.3	412.3	424.2	432.7	439.4
65°	366.5	366.5	373.3	380.1	385.2
67.5°	322.4	317.3	324.1	332.6	330.9
70°	276.6	271.5	276.6	280.0	281.7
72.5°	230.8	227.4	230.8	232.4	235.8
75°	186.6	184.9	186.6	186.6	186.6
77.5°	149.3	144.2	147.6	145.9	144.2
80°	110.3	108.6	106.9	105.2	106.9
82.5°	76.4	74.7	74.7	71.3	71.3
85°	44.1	42.4	42.4	39.0	39.0
87.5°	17.0	17.0	15.3	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)